

WHAT IS CLAIMED IS:

1 1. A purified or isolated nucleic acid comprising at least 10 consecutive
2 bases of the sequence of one of SEQ ID NOs: 40-84 and 130-154 or one of the
3 sequences complementary thereto.

1 2. The purified or isolated nucleic acid of claim 1, comprising the sequence
2 of one of SEQ ID NOs: 40-84 and 130-154 or a sequence complementary thereto.

3. The purified or isolated nucleic acid of claim 1, comprising the full coding sequences of one of SEQ ID NOs: 40-59, 61-73, 75, 77-82, and 130-154 wherein the full coding sequence comprises the sequence encoding signal peptide and the sequence encoding mature protein.

4. The purified or isolated nucleic acid of claim 1, comprising the nucleotides of one of SEQ ID NOs: 40-59, 61-75, 77-82, and 130-154 which encode a mature protein.

1 5. The purified or isolated nucleic acid of claim 1, comprising the
2 nucleotides of one of SEQ ID NOs: 40-59, 61-73, 75-82, 84, and 130-154 which encode
3 the signal peptide.

6. A purified or isolated nucleic acid encoding at least 10 amino acids of a polypeptide having the sequence of one of the sequences of SEQ ID NOs: 85-129 and 155-179.

1 7. The purified or isolated nucleic acid of claim 6, encoding a polypeptide
2 having the sequence of a mature protein included in one of the sequences of SEQ ID
3 NOs: 85-104, 106-120, 122-127, and 155-179.

1 8. The purified or isolated nucleic acid of claim 6, encoding a polypeptide
2 having the sequence of a signal peptide included in one of the sequences of SEQ ID
3 NOs: 85-104, 106-118, 120-127, 129, and 155-179.

1 9. A purified or isolated polypeptide comprising at least 10 consecutive
2 amino acids of one of the sequences of SEQ ID NOs: 85-129 and 155-179.

1 10. The purified or isolated protein of claim 9, comprising the full length
2 sequence of one of SEQ ID NOs: 85-129 and 155-179.

1 11. The isolated or purified polypeptide of claim 9, comprising a signal
2 peptide of one of the polypeptides of SEQ ID NOs: 85-104, 106-118, 120-127, 129, and
3 155-179.

1 12. The isolated or purified polypeptide of claim 9, comprising a mature
2 protein of one of the polypeptides of SEQ ID NOs: 85-104, 106-120, 122-127, and 155-
3 179.

1 13. A method of making a protein comprising one of the sequences of SEQ
2 ID NO: 85-129 and 155-179, comprising the steps of:

- 3 a) growing an appropriate host cell under conditions whereby said protein
4 is expressed, and
5 b) isolating said protein.

1 14. A host cell recombinant for the nucleic acid of claim 1.

1 15. In an array of polynucleotides of at least 15 nucleotides in length, the
2 improvement comprising inclusion in said array of at least one of the sequences of SEQ
3 ID NOs: 40-84 and 130-154, or one of the sequences complementary to the sequences
4 of SEQ ID NOs: 40-84 and 130-154, or a fragment thereof of at least 15 consecutive
5 nucleotides.

1 16. A purified or isolated antibody capable of binding to a polypeptide
2 comprising at least 10 consecutive amino acids of the sequence of one of SEQ ID NOs:
3 85-129 and 155-179.

1 17. A computer readable medium having stored thereon a sequence selected
2 from the group consisting of a cDNA code of SEQ ID NOs. 40-84 and 130-154 or a
3 polypeptide code of SEQ ID NOs. 85-129 and 155-179.

1 18. A method of binding the antibody of claim 16 to a polypeptide of claim 6.

1 19. A method for comparing a first sequence of claim 17 to a reference
2 sequence comprising the steps of:
3 reading said first sequence and said reference sequence through use of a computer
4 program which compares sequences; and
5 determining differences between said first sequence and said reference sequence
6 with said computer program.

1 20. A method for identifying a feature in a sequence of claim 17 comprising
2 the steps of:
3 reading said sequence through the use of a computer program which identifies
4 features in sequences; and
5 identifying features in said sequence with said computer program.